

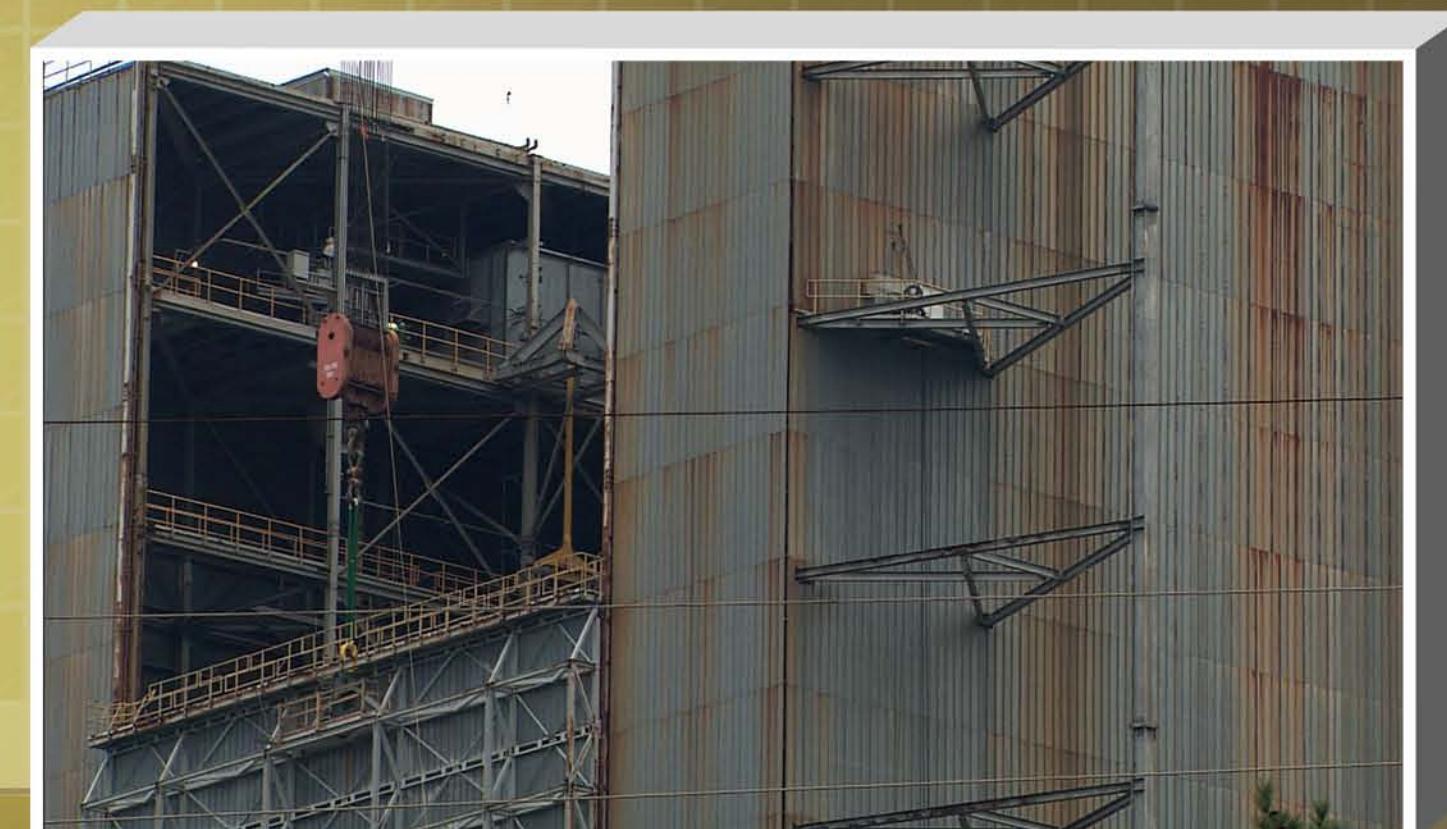
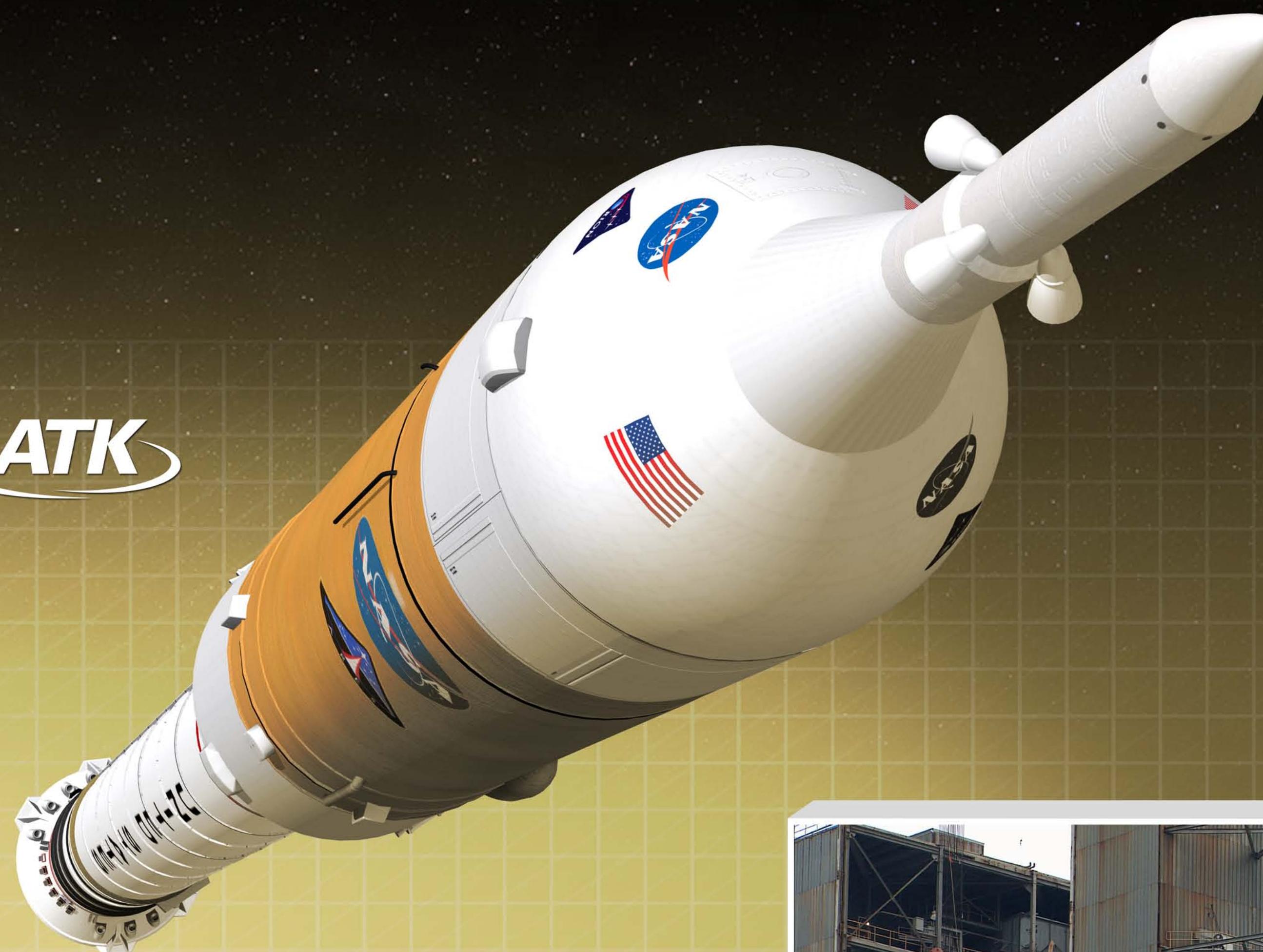


BOEING

ATK

Pratt & Whitney
A United Technologies Company

Pratt & Whitney Rocketdyne



Lowering the Dynamic Test Stand Bay Door

Ares I Crew Launch Vehicle

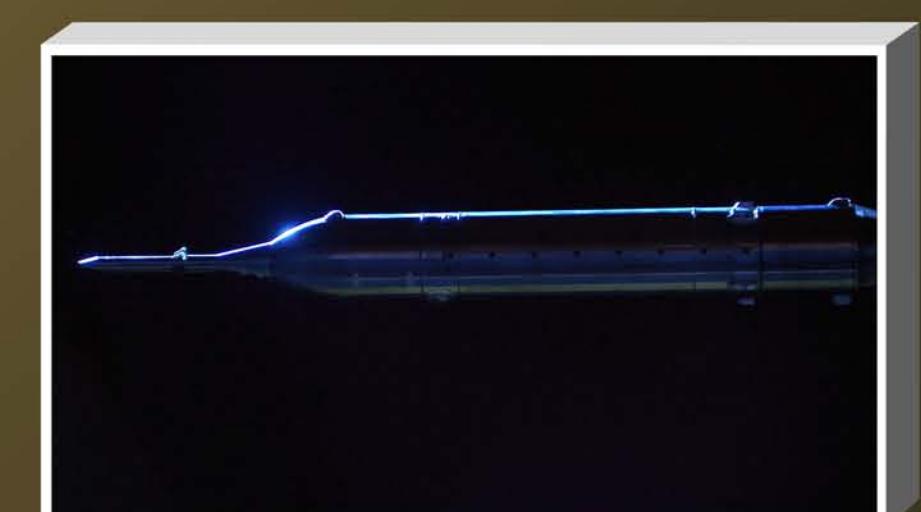
Vehicle Integration

◆ **Major Milestone:**
Completed Preliminary Non-Advocate Review and received unanimous approval to proceed to Preliminary Design Review

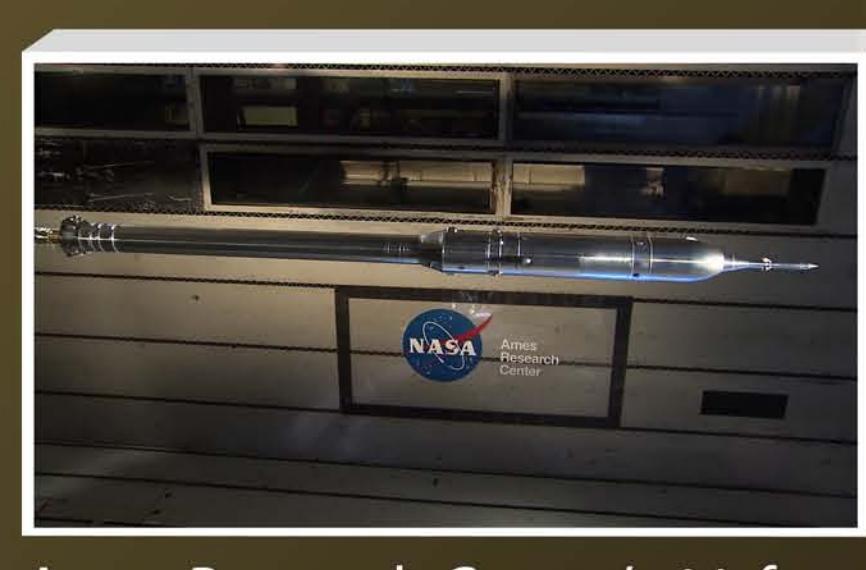
- Began renovations of MSFC Dynamic Test Stand for integrated vehicle ground vibration testing (IVGVT)
- Conducted extensive wind tunnel testing of Ares Design Analysis Cycle 2B (ADAC-2B) vehicle configuration at Boeing Polysonic Wind Tunnel, Langley National Transonic Facility, and MSFC Aerodynamics Research Facility



Removing Dynamic Test Stand Roof Panels



ADAC-2B Wind Tunnel Testing



Ames Research Center's 11-foot Wind Tunnel

